## ECOREGION Widely distributed and migratory stocks <br> STOCK <br> European seabass in the Northeast Atlantic

## Advice for 2013

ICES advises on the basis of the approach to data-limited stocks that commercial catches should be no more than 6000 tonnes. ICES recommends that implementation of 'input' controls should be promoted. This is the first year ICES is providing quantitative advice for data-limited stocks (see Quality considerations).

## Stock status



Ages in UK landings per gear


Figure 9.4.23.1 European seabass in the Northeast Atlantic. ICES commercial landings (tonnes) and average age compositions of UK commercial landings during 1985-1997 and 1998-2010 for trawls, nets, and lines in Subareas IV and VII.

Commercial fishery catches of all gear types exhibit a broad age range, and fish of over 20 years of age are recorded in most years, suggesting relatively low mortality rates historically. Catches are strongly influenced by intermittent strong year classes and periods of poor recruitment. The 1989 year class is very strong in all data sets (Figure 9.4.23.2) and contributed to the landings in the 1990s. The increase in landings since the mid-1990s coincided with a northward expansion of the stock and establishment of fisheries in the North Sea during a period of above-average sea temperatures.

## Management plans

No specific management objectives are known to ICES. There is no TAC for this species.

## Biology

Seabass grow slowly, do not mature until 4-7 years of age, and have been recorded up to 28 years of age. Juvenile bass up to three years of age occupy nursery areas in estuaries whilst adults undertake seasonal migrations from inshore habitats to offshore spawning sites where they are targeted by pelagic trawlers. After spawning, seabass tend to return to the same coastal sites each year. The combination of slow growth, late maturity, spawning aggregation, and strong site fidelity, increase the vulnerability of seabass to over-exploitation and localized depletion. ICES highlights that the stock is currently treated as a single unit in the entire North East Atlantic. However, considering its strong site fidelity, natal homing and high residency, future assessment and management should identify and treat separate spawning aggregations independently.

## Environmental influence on the stock

Ocean warming in recent decades has likely led to the more northerly distribution of seabass, which are now found further north into the North Sea. The increase in sea temperature may also be responsible for adult seabass remaining for a longer period of the year in the near-shore areas of the English Channel and Celtic Sea.

## The fisheries

Sea bass are targeted by pelagic trawlers on offshore spawning grounds during November to April, and are taken as seasonal target or bycatch by a large fleet of inshore vessels using a variety of gears. Discarding is low except for some small-mesh trawl fleets operating inshore. Bass in ICES Divisions VIIIc and IXa are mainly caught by Spanish (Basque) trawlers and artisanal Portuguese fleets using lines and gillnets. In Ireland, commercial fisheries for bass have been banned since 1990. Seabass is an important marine recreational angling species in the UK, Ireland, France, and the Netherlands.

## Effects of the fisheries on the ecosystem

Trawling and gillnetting for seabass often results in an unintended bycatch of marine mammals (ICES, 2010a).

## Quality considerations

Recreational fisheries are likely to contribute substantially to fishery removals in some areas, and time-series of catches, releases, and size/age composition are needed. Stock structure in Subareas IV, VII and VIII remain poorly defined and further studies are needed using tagging, genetics, and other population/individual markers. Historical sampling of fishery catches is of variable quality, and data should be collected representatively across the fleets taking seabass. Time-series of relative abundance indices are needed for both the adult and pre-recruit components of the stock.

The advice is based on a precautionary reduction of catches because of missing or non-representative data. The methods applied to derive quantitative advice for data-limited stocks are expected to evolve as they are further developed and validated.

Scientific basis

| Assessment type | Data-limited stocks, category 5.2.0. |
| :--- | :--- |
| Input data | None. |
| Discards and bycatch | A low rate of discarding is observed in most seabass fisheries. |
| Indicators | Commercial landings. |
| Other information | A benchmark for this stock is planned for 2012. |
| Working group report | WGNEW |

## ECOREGION Widely distributed and migratory stocks <br> STOCK <br> European seabass in the Northeast Atlantic

## Reference points

No reference points have been defined for this stock.
Outlook for 2013
No reliable quantitative assessment is currently available for European seabass in the Northeast Atlantic. Therefore, no catch projections are available.

## ICES approach to data-limited stocks

For data-limited stocks without information on abundance or exploitation ICES considers that a precautionary reduction of catches should be implemented, unless there is ancillary information clearly indicating that the current exploitation is appropriate for the stock.

For this stock, ICES advises that total catches should decrease by $20 \%$ in relation to the last three years (2008-2010) average catch, corresponding to commercial catches of no more than 6000 t in 2013.

## Additional considerations

## Management considerations

ICES reiterates its previous recommendation that implementation of 'input' controls (preferably through technical measures aimed at protecting juvenile fish, in conjunction with entry limitations into the offshore fishery in particular) should be promoted (ICES, 2004). Any consideration of catch limitation (output control) would need to take into account that seabass are a bycatch in mixed fisheries to a various extent, depending on gear and country; this incites discarding and should be avoided.

Management of seabass fisheries needs to take into account the distinctive characteristics and economic value of the different fisheries. Seabass is of high social and economic value to the large inshore artisanal fleets and to sea angling and other recreational fishing that contribute substantially to local economies.

It is currently not clear how management units should be defined in Subareas IV, VII and VIII in relation to stock structure. As bass is, at present, a non-TAC species, there is potential for displacement of fishing effort from other species with limiting quotas.

It is not yet clear whether the populations in the North Sea and Celtic Sea ecoregions can be treated as separate stocks for management purposes. There is insufficient information to evaluate the stock status of the European seabass in the Northeast Atlantic area.

## Biology

Seabass (Dicentrarchus labrax) is a widely distributed species in Northeast Atlantic shelf waters from southern Norway, through the North Sea, the Irish Sea, the Bay of Biscay, Atlantic Iberian Waters, the Mediterranean, and the Black Sea to Northwest Africa. The stock structure of this species is currently uncertain although there is evidence that seabass around southern Ireland and in the Bay of Biscay could be treated as two populations separate from seabass in the eastern Celtic Sea, English Channel, and North Sea. Seabass on the north Brittany coast may, however, be linked to the population in the Bay of Biscay.

Mature seabass aggregate offshore to spawn, which occurs during January-March in the Bay of Biscay and from February to May in the English Channel and eastern Celtic Sea. The larvae drift inshore to nursery areas in creeks, estuaries, and shallow bays where they remain for at least two years. Three-year-old fish migrate to over-wintering areas in deeper water, returning to large estuaries in summer. Older bass are more wide-ranging, and mature individuals undertake annual migrations between inshore feeding areas and offshore spawning sites. Tagging studies show that seabass are often recaptured close to where they were released, despite mixing on offshore spawning grounds, indicating strong association with particular coastal sites.

## Quality considerations

Recreational fisheries are significant and not included in the landings applied to advice. Surveys in France in 20092010 estimated that the recreational fishery (angling and non-angling gears) in the Atlantic area caught 3200 t of seabass (standard error 1600 t ), of which 830 t was released. In the same period commercial fisheries in France landed around 5000 t .

From 1999 onwards, French landings data from FishStat are replaced by more accurate figures from a separate analysis of logbook and auction data..

In the Iberian waters (ICES VIIIc and area IX) where two species of Dicentrarchus are caught, the landings of Portuguese and other fleets prior to 2006 are mainly recorded as mixed seabass species. Previous ICES advice has included "unallocated" landings, representing the difference between UK estimates from a fleet census and logbook scheme for bass fishing boats and the official statistics. This scheme is under review and the landings estimates are not presented this year pending findings of the review.

## Regulations

The official minimum landing size is 36 cm (EC regulation 850/98). In addition, a variety of national restrictions on commercial sea bass fishing are also in place, including licensing, individual landings limitations, larger MLS and seasonal/ area closures. Depending on country, measures affecting recreational fisheries include minimum landing sizes, bag limits and gear restrictions.

## Data requirements

Time-series of relative abundance indices need to be developed throughout the range of the stock, for both the adult and pre-recruit components of the stock.

There is a need to ensure adequate and representative sampling coverage of fleets catching seabass, including developing regional time-series of recreational fishery catch, effort, and catch composition.

Further studies using tagging, genetics, and other stock and individual markers are needed to more accurately define stock boundaries suitable for assessment and management purposes.

Studies have been made that document the survival of recreationally caught and released seabass.

## Comparison with previous assessment and advice

The interpretation of the state of the stock has not changed. The advice last year was based on precautionary considerations, the advice this year is based on ICES approach to data-limited stocks.

## Sources

ICES. 2004. Report of the ICES Advisory Committee on Fishery Management and Advisory Committee on Ecosystems (Section 4.4.15, Atlantic seabass), 2004. ICES Advice. Volume 1, Number 2. 1544 pp.
ICES. 2010a. Report of the Study Group on Bycatch of Protected Species (SGBYC), 1-4 February 2010, Copenhagen, Denmark. ICES CM 2010/ACOM:25. 123 pp.
ICES. 2010b. Report of the Working Group on Assessment of New MoU Species (WGNEW), 11-15 October 2010, ICES HQ, Denmark. ICES CM 2010/ACOM: 21.


Figure 9.4.23.2. Seabass in the Northeast Atlantic. Age composition of UK landings of seabass from all areas, 1985-2010. Left: percentage composition by age in each year (catches in a year add up to 100). The strong 1989 cohort is highlighted. Right: actual numbers-at-age in each year.

Table 9.4.23.1
Seabass in the Northeast Atlantic. ICES advice, management, official landings, and ICES landings.

| Year | ICES Advice | Predicted <br> catch <br> corresp. to <br> advice | Agreed TAC | Official <br> landings | ICES <br> landings |
| :--- | :--- | :--- | :--- | :--- | :--- |
| 2000 | - | - | none | 4.7 | 5.1 |
| 2001 | - | - | none | 4.6 | 5.1 |
| 2002 | No increase in effort or F | - | none | 4.7 | 5.2 |
| 2003 | No increase in effort or F | - | none | 6.0 | 6.2 |
| 2004 | No increase in effort or F | - | none | 6.0 | 6.5 |
| 2005 | - | - | none | 6.9 | 7.7 |
| 2006 | - | - | none | 7.6 | 8.2 |
| 2007 | - | - | none | 7.5 | 7.9 |
| 2008 | - | - | none | 5.3 | 7.7 |
| 2009 | - | - | none | 7.5 | 7.0 |
| 2010 | - | - | none | 8.2 | 7.8 |
| 2011 | - | - | none |  |  |
| 2012 | No increase in catch | - | none |  |  |

Table 9.4.23.2 Seabass in Divisions IVb,c, and VIId. Official landings by country and ICES estimates of catches (t).
$\begin{array}{ccccccccc}\hline & & & & \text { France }^{1} \\ \text { (ICES) }\end{array} \quad$ Netherlands $\left.\begin{array}{cc}\text { UK(Sco) } & \text { UK(E,W\&NI) }\end{array} \begin{array}{c}\text { Total } \\ \text { (ICES) }\end{array}\right]$

Source: ICES Bulletin Statistique.
${ }^{1}$ Landings supplied to WGNEW by Ifremer.

Table 9.4.23.3 Seabass in Divisions VIIe,h. Official landings by country and ICES estimates of catches (t).

|  | Belgium | Denmark | France | France ${ }^{1}$ <br> (ICES) | Channel <br> Islands | Netherlands | Spain | UK(Sco) | UK(E,W\&NI) | Total (ICES) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1984 | 0 | 0 | 444 | 444 | 25 | 0 | 0 | 0 | 39 | 508 |
| 1985 | 0 | 0 | 432 | 432 | 18 | 0 | 0 | 0 | 19 | 469 |
| 1986 | 0 | 0 | 543 | 543 | 15 | 0 | 0 | 0 | 21 | 579 |
| 1987 | 0 | 0 | 1019 | 1019 | 14 | 0 | 0 | 0 | 16 | 1049 |
| 1988 | 0 | 18 | 509 | 509 | 12 | 0 | 0 | 0 | 30 | 569 |
| 1989 | 0 | 1 | 390 | 390 | 48 | 0 | 0 | 0 | 39 | 478 |
| 1990 | 0 | 0 | 389 | 389 | 25 | 0 | 0 | 0 | 91 | 505 |
| 1991 | 0 | 0 | 434 | 434 | 16 | 0 | 0 | 0 | 44 | 494 |
| 1992 | 0 | 0 | 475 | 475 | 36 | 0 | 0 | 0 | 40 | 551 |
| 1993 | 0 | 0 | 422 | 422 | 45 | 0 | 0 | 0 | 51 | 518 |
| 1994 | 0 | 0 | 306 | 306 | 49 | 0 | 0 | 0 | 68 | 423 |
| 1995 | 0 | 0 | 424 | 424 | 69 | 0 | 0 | 0 | 101 | 594 |
| 1996 | 0 | 0 | 1135 | 1135 | 56 | 4 | 0 | 0 | 162 | 1357 |
| 1997 | 0 | 0 | 907 | 907 | 74 | 0 | 0 | 0 | 150 | 1131 |
| 1998 | 0 | 0 | 784 | 784 | 79 | 16 | 0 | 0 | 163 | 1042 |
| 1999 | 0 | 0 | 0 | 752 | 108 | 0 | 0 | 4 | 312 | 1176 |
| 2000 | 0 | 0 | 699 | 1137 | 130 | 0 | 0 | 0 | 139 | 1406 |
| 2001 | 0 | 0 | 754 | 1149 | 80 | 3 | 0 | 0 | 170 | 1402 |
| 2002 | 0 | 0 | 649 | 902 | 73 | 2 | 0 | 0 | 243 | 1220 |
| 2003 | 2 | 0 | 651 | 1258 | 84 | 5 | 0 | 0 | 233 | 1582 |
| 2004 | 4 | 0 | 670 | 1237 | 159 | 3 | 0 | 0 | 231 | 1634 |
| 2005 | 3 | 0 | 712 | 1750 | 220 | 8 | 0 | 0 | 162 | 2143 |
| 2006 | 6 | 0 | 985 | 2075 | 193 | 9 | 0 | 1 | 199 | 2483 |
| 2007 | 6 | 0 | 691 | 1314 | 160 | 3 | 0 | 28 | 243 | 1754 |
| 2008 | 7 | 0 | 454 | 1402 | 143 | 5 | <0.5 | <0.5 | 217 | 1774 |
| 2009 | 2 | 0 | 1256 | 1140 | 103 | 6 | 0 | 3 | 183 | 1437 |
| 2010 | 2 | 0 | 1940 | 1825 | 144 | 8 | 0 | 35 | 191 | 2205 |

Source: ICES Bulletin Statistique.
${ }^{1}$ Landings supplied to WGNEW by Ifremer.

Table 9.4.23.4 Seabass in Divisions VIIa,f\&g. Official landings by country and ICES estimates of catches (t).

|  | Belgium | France | France(ICES) ${ }^{1}$ | Ireland | UK(Sco) | UK(E,W\&NI) | Total | Total(ICES) |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1984 | 0 | 0 | 0 | 0 | 0 | 27 | 27 | 27 |
| 1985 | 0 | 44 | 44 | 0 | 0 | 11 | 55 | 55 |
| 1986 | 0 | 3 | 3 | 0 | 0 | 11 | 14 | 14 |
| 1987 | 0 | 27 | 27 | 3 | 0 | 23 | 53 | 53 |
| 1988 | 0 | 6 | 6 | 0 | 0 | 42 | 48 | 48 |
| 1989 | 0 | 13 | 13 | 0 | 0 | 61 | 74 | 74 |
| 1990 | 0 | 10 | 10 | 0 | 0 | 27 | 37 | 37 |
| 1991 | 0 | 70 | 70 | 0 | 0 | 27 | 97 | 97 |
| 1992 | 0 | 42 | 42 | 0 | 0 | 25 | 67 | 67 |
| 1993 | 0 | 14 | 14 | 0 | 0 | 33 | 47 | 47 |
| 1994 | 0 | 8 | 8 | 0 | 0 | 110 | 118 | 118 |
| 1995 | 0 | 38 | 38 | 0 | $<0.5$ | 131 | 169 | 169 |
| 1996 | 0 | 41 | 41 | 0 | <0.5 | 82 | 123 | 123 |
| 1997 | 0 | 35 | 35 | 0 | $<0.5$ | 88 | 123 | 123 |
| 1998 | 0 | 207 | 207 | 0 | <0.5 | 42 | 249 | 249 |
| 1999 | 0 | 0 | 0 | 0 | <0.5 | 32 | 32 | 32 |
| 2000 | 0 | 122 | 56 | 0 | <0.5 | 50 | 228 | 106 |
| 2001 | 0 | 164 | 54 | 0 | 0 | 83 | 301 | 137 |
| 2002 | 0 | 73 | 55 | 0 | 0 | 133 | 261 | 188 |
| 2003 | 19 | 46 | 16 | <0.5 | 0 | 81 | 162 | 116 |
| 2004 | 36 | 54 | 49 | 0 | 3 | 75 | 217 | 163 |
| 2005 | 54 | 99 | 34 | 0 | 1 | 72 | 260 | 161 |
| 2006 | 55 | 45 | 39 | <0.5 | 0 | 118 | 257 | 212 |
| 2007 | 44 | 43 | 28 | 0 | 1 | 168 | 284 | 241 |
| 2008 | 63 | 32 | 58 | 0 | 1 | 180 | 334 | 302 |
| 2009 | 46 | 26 | 26 | 0 | 1 | 138 | 237 | 211 |
| 2010 | 38 | 49 | 49 | 0 | 1 | 91 | 228 | 179 |

Source: ICES Bulletin Statistique.
${ }^{1}$ Landings supplied to WGNEW by Ifremer.

Table 9.4.23.5 Seabass in Divisions IVa, VIa, and VIIb,c,j\&k, and Subarea XII. Official landings by country (t).

|  | Belgium | Denmark | France | Ireland | Netherlands | Norway | Spain | UK(Sco) | UK(E,W\&NI) | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1984 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1985 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | $<0.5$ | 1 |
| 1986 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $<0.5$ | 0 |
| 1987 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1988 | 0 | 0 | 0 | 0 | 3 | 0 | 0 | 0 | 0 | 3 |
| 1989 | 0 | 0 | 4 | 1 | 0 | 0 | 0 | 0 | 0 | 5 |
| 1990 | 0 | 0 | 0 | 1 | 0 | 0 | 0 | 0 | 0 | 1 |
| 1991 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $<0.5$ | 0 |
| 1992 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $<0.5$ | 0 |
| 1993 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $<0.5$ | 0 |
| 1994 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $<0.5$ | 0 |
| 1995 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $<0.5$ | 8 | 8 |
| 1996 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $<0.5$ | 3 | 3 |
| 1997 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $<0.5$ | 0 |
| 1998 | 0 | $<0.5$ | 0 | 0 | 0 | 0 | 40 | $<0.5$ | 10 | 50 |
| 1999 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | $<0.5$ | 1 | 1 |
| 2000 | 0 | 0 | 1 | 0 | 0 | 0 | 3 | $<0.5$ | $<0.5$ | 4 |
| 2001 | 0 | 0 | 2 | 0 | 0 | 0 | 3 | 0 | 0 | 5 |
| 2002 | 0 | 0 | 2 | 0 | 0 | 0 | $<0.5$ | 0 | 12 | 14 |
| 2003 | 0 | 0 | 1 | 0 | 1 | $<0.5$ | 0 | 0 | $<0.5$ | 2 |
| 2004 | $<0.5$ | 0 | 3 | 0 | 0 | $<0.5$ | 1 | 0 | $<0.5$ | 4 |
| 2005 | 0 | 0 | 2 | 0 | 0 | 0 | 0 | 0 | 0 | 2 |
| 2006 | 0 | 0 | 2 | 0 | 0 | $<0.5$ | 0 | $<0.5$ | $<0.5$ | 2 |
| 2007 | 0 | $<0.5$ | 6 | 0 | 0 | $<0.5$ | 0 | $<0.5$ | $<0.5$ | 6 |
| 2008 | 0 | 0 | 5 | 0 | 0 | $<0.5$ | $<0.5$ | 0 | $<0.5$ | 5 |
| 2009 | 0 | 0 | 4 | 1 | 0 | $<0.5$ | 0 | 0 | 0 | 5 |
| 2010 | 0 | 0 | 9 | 0 | 0 | 0 | 0 | 0 | 0 | 9 |

Source: ICES Bulletin Statistique.

Table 9.4.23.6 Seabass in Division VIIIa,b\&d. Official landings by country and ICES estimates (t).

|  | Belgium | France | $\begin{array}{r} \text { France } \\ \left(\text { (ICES) }{ }^{1}\right. \end{array}$ | Netherlands | Spain | UK(Sco) | UK(E,W\&NI) | $\begin{aligned} & \text { Total } \\ & \text { (ICES) } \end{aligned}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1984 | 0 | 2886 | 2886 | 0 | 0 | 0 | 0 | 2886 |
| 1985 | 0 | 2477 | 2477 | 0 | 0 | 0 | 0 | 2477 |
| 1986 | 0 | 2607 | 2607 | 0 | 0 | 0 | 0 | 2607 |
| 1987 | 0 | 2474 | 2474 | 0 | 0 | 0 | 5 | 2479 |
| 1988 | 0 | 2277 | 2277 | 0 | 0 | 0 | 15 | 2292 |
| 1989 | 0 | 2215 | 2215 | 0 | 0 | 0 | 0 | 2215 |
| 1990 | 0 | 1679 | 1679 | 0 | 0 | 0 | 0 | 1679 |
| 1991 | 0 | 1779 | 1779 | 0 | 17 | 0 | 0 | 1796 |
| 1992 | 0 | 1762 | 1762 | 0 | 14 | 0 | 0 | 1776 |
| 1993 | 0 | 1599 | 1599 | 0 | 14 | 0 | 0 | 1613 |
| 1994 | 0 | 1711 | 1711 | 0 | 17 | 0 | 0 | 1728 |
| 1995 | 0 | 1549 | 1549 | 0 | 0 | 0 | 0 | 1549 |
| 1996 | 0 | 1459 | 1459 | 0 | 0 | 0 | 14 | 1473 |
| 1997 | 0 | 1416 | 1416 | 0 | 0 | 0 | 12 | 1428 |
| 1998 | 0 | 1263 | 1263 | 0 | 27 | 0 | 4 | 1294 |
| 1999 | 0 | 0 | 1117 | 0 | 11 | 0 | 2 | 1130 |
| 2000 | 0 | 2081 | 2295 | 0 | 67 | 0 | $<0.5$ | 2362 |
| 2001 | 0 | 2025 | 2238 | 3 | 68 | 0 | 0 | 2309 |
| 2002 | 0 | 1943 | 2216 | 0 | 182 | 0 | 0 | 2398 |
| 2003 | $<0.5$ | 2814 | 2497 | 0 | 127 | 0 | 2 | 2626 |
| 2004 | <0.5 | 2561 | 2284 | 0 | 96 | 0 | 6 | 2386 |
| 2005 | 0 | 3192 | 2722 | 0 | 74 | 0 | 4 | 2800 |
| 2006 | 0 | 3322 | 2707 | 0 | 168 | 0 | 2 | 2877 |
| 2007 | 1 | 2985 | 2677 | 0 | 79 | 0 | 1 | 2758 |
| 2008 | 0 | 1508 | 2600 | 0 | 146 | $<0.5$ | $<0.5$ | 2746 |
| 2009 | 1 | 2341 | 2152 | 0 | 201 | 0 | 0 | 2354 |
| 2010 | 0 | 2333 | 2089 | 0 | 167 | 2 | 0 | 2258 |

Source: ICES Bulletin Statistique.
${ }^{1}$ Landings supplied to WGNEW by Ifremer.

Table 9.4.23.7 Seabass in Division VIIIc. Official landings by country (t).

|  | France | Portugal ${ }^{1}$ | Spain | Total |
| :---: | :---: | :---: | :---: | :---: |
| 1984 | 0 | 0 | 0 | 0 |
| 1985 | 0 | 0 | 0 | 0 |
| 1986 | 0 | 0 | 0 | 0 |
| 1987 | 0 | $<0.5$ | 0 | 0 |
| 1988 | 14 | <0.5 | 0 | 14 |
| 1989 | 0 | 1 | 325 | 326 |
| 1990 | 1 | <0.5 | 395 | 396 |
| 1991 | 2 | 1 | 300 | 303 |
| 1992 | 0 | $<0.5$ | 254 | 254 |
| 1993 | 0 | $<0.5$ | 247 | 247 |
| 1994 | 0 | 2 | 306 | 308 |
| 1995 | 0 | $<0.5$ | 334 | 334 |
| 1996 | 0 | $<0.5$ | 376 | 376 |
| 1997 | 0 | $<0.5$ | 290 | 290 |
| 1998 | 0 | $<0.5$ | 258 | 258 |
| 1999 | 0 | $<0.5$ | 221 | 221 |
| 2000 | 2 | $<0.5$ | 239 | 241 |
| 2001 | $<0.5$ | $<0.5$ | 166 | 166 |
| 2002 | 8 | <0.5 | 75 | 83 |
| 2003 | 1 | 1 | 73 | 75 |
| 2004 | 39 | 1 | 181 | 221 |
| 2005 | 57 | 1 | 139 | 197 |
| 2006 | 2 | 2 | 151 | 155 |
| 2007 | 1 | 1 | 114 | 116 |
| 2008 | 0 | 1 | 141 | 142 |
| 2009 | 6 | 6 | 126 | 138 |
| 2010 | 2 | 2 | 196 | 200 |

Source: ICES Bulletin Statistique.
${ }^{1}$ Contains mixed landings of two seabass species, particularly before 2006.

Table 9.4.23.8 Seabass in Division IXa. Official landings by country (t).

|  | Denmark | France | Portugal $^{1}$ | Spain $^{1}$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1984 | 0 | 0 | 431 | 250 | 681 |
| 1985 | 0 | 0 | 311 | 164 | 475 |
| 1986 | 0 | 0 | 219 | 182 | 401 |
| 1987 | 0 | 0 | 216 | 194 | 410 |
| 1988 | 0 | 0 | 115 | 93 | 208 |
| 1989 | 0 | 0 | 104 | 92 | 196 |
| 1990 | 0 | 0 | 90 | 146 | 236 |
| 1991 | 0 | 0 | 76 | 111 | 187 |
| 1992 | 0 | 0 | 53 | 94 | 147 |
| 1993 | 0 | 0 | 57 | 104 | 161 |
| 1994 | 0 | 0 | 55 | 134 | 189 |
| 1995 | 0 | 0 | 42 | 112 | 154 |
| 1996 | 0 | 0 | 48 | 158 | 206 |
| 1997 | 0 | 0 | 39 | 184 | 223 |
| 1998 | 0 | 0 | 38 | 115 | 153 |
| 1999 | 0 | 0 | 37 | 134 | 171 |
| 2000 | 0 | 0 | 49 | 90 | 139 |
| 2001 | 0 | 0 | 42 | 69 | 111 |
| 2002 | 0 | 0 | 43 | 46 | 89 |
| 2003 | $<0.5$ | 0 | 46 | 40 | 86 |
| 2004 | 0 | 0 | 66 | 75 | 141 |
| 2005 | 0 | 0 | 176 | 80 | 256 |
| 2006 | 0 | 0 | 459 | 117 | 576 |
| 2007 | 0 | 0 | 544 | 228 | 772 |
| 2008 | 0 | 0 | 402 | 111 | 513 |
| 2009 | 0 | 2 | 413 | 86 | 501 |
| 2010 | 0 | 0 | 487 | 90 | 577 |
|  |  |  |  |  |  |
|  | 0 | 0 | 0 |  |  |

Source: ICES Bulletin Statistique.
${ }^{1}$ Contains mixed landings of two seabass species, particularly before 2006.

